## WE CLAIM:

- 1. A system comprising:
  - a reservoir;
  - a pump coupled to the reservoir;
  - a catheter coupled to the pump and adapted for delivering a therapeutic agent to a cerebrospinal fluid of a patient; and
  - an injectable gabapentin composition housed in the reservoir and deliverable through the catheter in an amount effective to treat a gabapentin-sensitive disorder in the patient,
  - wherein the injectable gabapentin composition comprises a pharmacologically acceptable solvent and greater than about 30 mg/ml gabapentin, and wherein the composition has a tonicity of less than about 900mOsm.
- 2. The system claim 1, wherein the composition is an injectable solution.
- 3. The system claim 2, wherein the solution comprises between about 30 mg/mL and about 100 mg/mL gabapentin.
- 4. The system of claim 3, wherein the solution comprises between about 30 mg/mL and about 90 mg/mL gabapentin.
- 5. The system of claim 4, wherein the solution comprises between about 40 mg/mL and about 90 mg/mL gabapentin.
- 6. The system of claim 5, wherein the solution comprises about 80 mg/mL gabapentin.
- 7. The system of claim 2, wherein the solution comprises greater than about 31 mg/ml gabapentin.

- 8. The system of claim 2, wherein the solution comprises greater than about 32 mg/ml gabapentin.
- 9. The system of claim 2, wherein the solution comprises greater than about 33 mg/ml gabapentin.
- 10. The system of claim 2, wherein the solution comprises greater than about 34 mg/ml gabapentin.
- 11. The system of claim 2, wherein the solution comprises greater than about 35 mg/ml gabapentin.
- 12. The system of claim 2, wherein the solution comprises greater than about 36 mg/ml gabapentin.
- 13. The system of claim 2, wherein the solution comprises greater than about 37 mg/ml gabapentin.
- 14. The system of claim 2, wherein the solution comprises greater than about 38 mg/ml gabapentin.
- 15. The system of claim 2, wherein the solution comprises greater than about 39 mg/ml gabapentin.
- 16. The system of claim 2, wherein the solution comprises greater than about 40 mg/ml gabapentin.
- 17. The system of claim 2, wherein the solvent is water.
- 18. The system of claim 17, wherein the solution further comprises sodium chloride.

- 19. The system of claim 18, wherein the solution comprises sodium chloride in an amount such that the solution is substantially isotonic with cerebrospinal fluid.
- 20. The system of claim 2, wherein the solvent is sterile saline.
- 21. The system of claim 2, wherein the tonicity of the solution is in the range of about 250 mOsm to about 700 mOsm.
- 22. The system of claim 2, wherein the tonicity of the solution is in the range about 250 mOsm to about 600 mOsm.
- 23. The system of claim 2, wherein the tonicity of the solution is about 500 mOsm.
- 24. The system of claim 2, wherein the solution has a pH between about 4 and about 9.
- 25. The system of claim 24, wherein the solution has a pH between about 5 and about 7.
- 26. The system of claim 2, wherein the solution comprises substantially no preservatives.
- 27. The system of claim 2, wherein the solution comprises substantially no buffers.
- 28. The system of claim 1, wherein the injectable gabapentin composition further comprises one or more additional therapeutic agents.
- 29. The system of claim 28, wherein at least one of the one or more additional therapeutic agents is selected from the group consisting of:
  a local anesthetic, a GABA agonist, a serotonin agonist, a thyrotropin-releasing hormone, a benzodiazapine, an opioid agonist, a non-steroidal anti-inflammatory

agent, an alpha2-adrenergic agonist, an anticonvuslant agent, and an antidepressant.

- 30. The system of claim 28, wherein at least one of the one or more additional therapeutic agents is selected from the group consisting of: morphine, hydromorphone, bupivacaine, clonidine, lidocaine, baclofen, muscimol, sumatriptan, sodium valproate, midazolam, adenosine, and alprazolam, or a pharmacologically acceptable salt thereof.
- 31. The system of claim 30, wherein the composition comprises morphine or a pharmacologically acceptable salt thereof.
- 32. The system of claim 31, wherein the composition comprises between about 10 mg/mL to about 50 mg/mL of the morphine or the pharmacologically acceptable salt thereof.
- 33. The system of claim 31, wherein the composition comprises hydromorphone or a pharmacologically acceptable salt thereof.
- 34. The system of claim 33, wherein the composition comprises between about 1 mg/mL to about 20 mg/mL of the hydromorphone or the pharmacologically acceptable salt thereof..
- 35. The system of claim 6, wherein the solution has a pH between about 5.5 and 6.5, has a tonicity of about 500 mOsm, and comprises substantially no preservatives and substantially no buffers.
- 36. A system comprising:
  - a reservoir;
  - a pump coupled to the reservoir;

- a catheter coupled to the pump and adapted for delivering a therapeutic agent to a cerebrospinal fluid of a patient; and
- an injectable gabapentin composition housed in the reservoir and deliverable through the catheter in an amount effective to a gabapentin-sensitive disorder in the patient, wherein
- the injectable gabapentin composition comprises gabapentin, a pharmacologically acceptable solvent, and less than 0.9% (w/v) sodium chloride.
- 37. The system of claim 36, wherein the injectable gabapentin composition is a solution.
- 38. The system of claim 37, wherein the solution comprises greater than about 30 mg/ml gabapentin.
- 39. The system of claim 38, wherein the solution comprises between about 30 mg/ml and about 100 mg/ml gabapentin.
- 40. The system of claim 39, wherein the solution comprises about 80 mg/ml gabapentin.
- 41. The system of claim 36, wherein the injectable gabapentin composition further comprises one or more additional therapeutic agents.
- 42. The system of claim 41, wherein at least one of the one or more additional therapeutic agents is selected from the group consisting of: a local anesthetic, a GABA agonist, a serotonin agonist, a thyrotropin-releasing hormone, a benzodiazapine, an opioid agonist, a non-steroidal anti-inflammatory agent, an alpha2-adrenergic agonist, an anticonvuslant agent, and an antidepressant.

- 43. The system of claim 41, wherein at least one of the one or more additional therapeutic agents is selected from the group consisting of: morphine, hydromorphone, bupivacaine, clonidine, lidocaine, baclofen, muscimol, sumatriptan, sodium valproate, midazolam, adenosine, and alprazolam, or a pharmacologically acceptable salt thereof.
- 44. The system of claim 43, wherein at least one of the one or more additional therapeutic agents is selected from the group consisting of morphine and hydomorphone, or a pharmacologically acceptable salt thereof.
- 45. A method of preparing a system of claim 1, comprising: adding the injectable gabapentin composition to the reservoir.

46. A method of preparing a system of claim 36, comprising: adding the injectable gabapentin composition to the reservoir.